Fig. 1

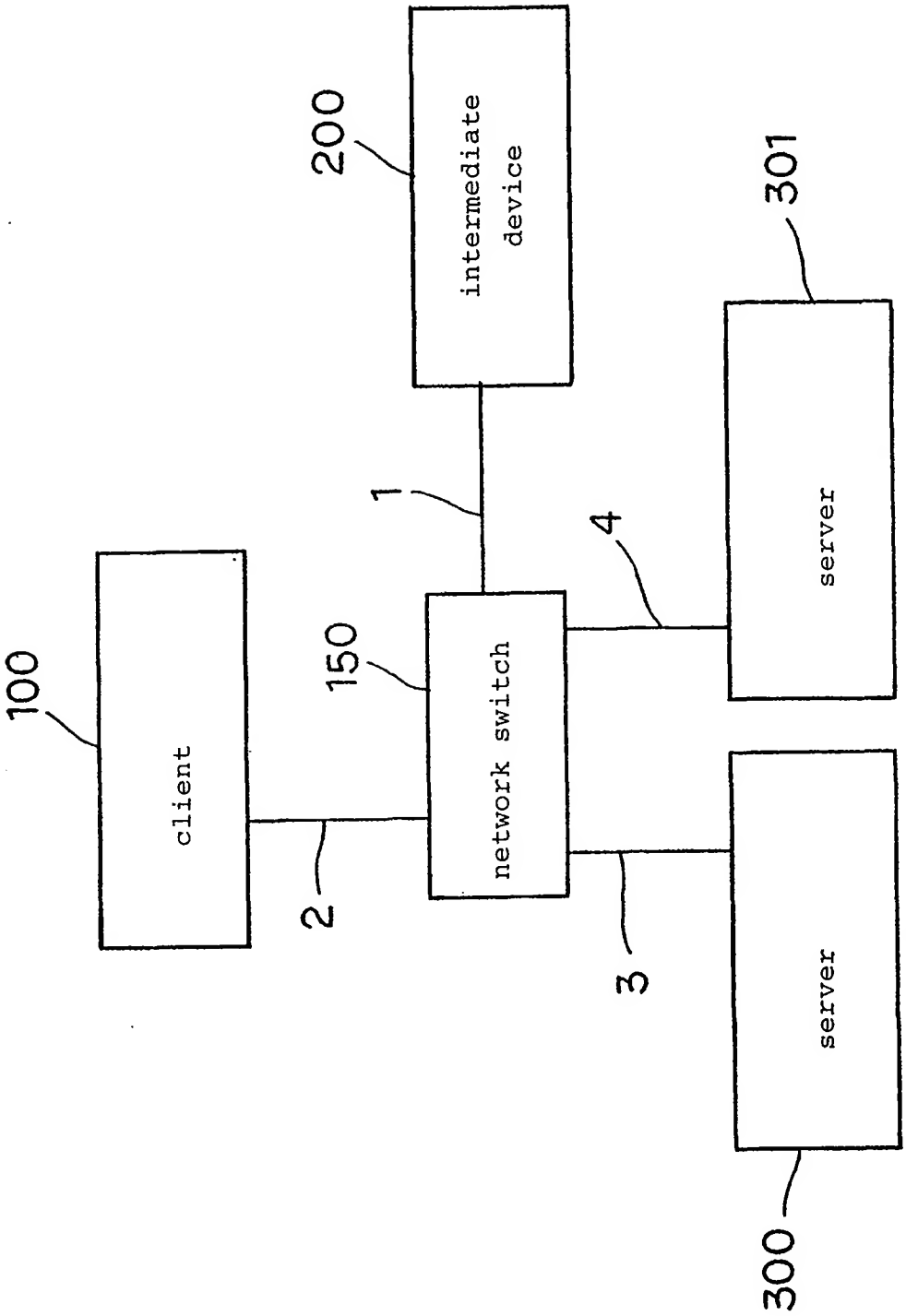
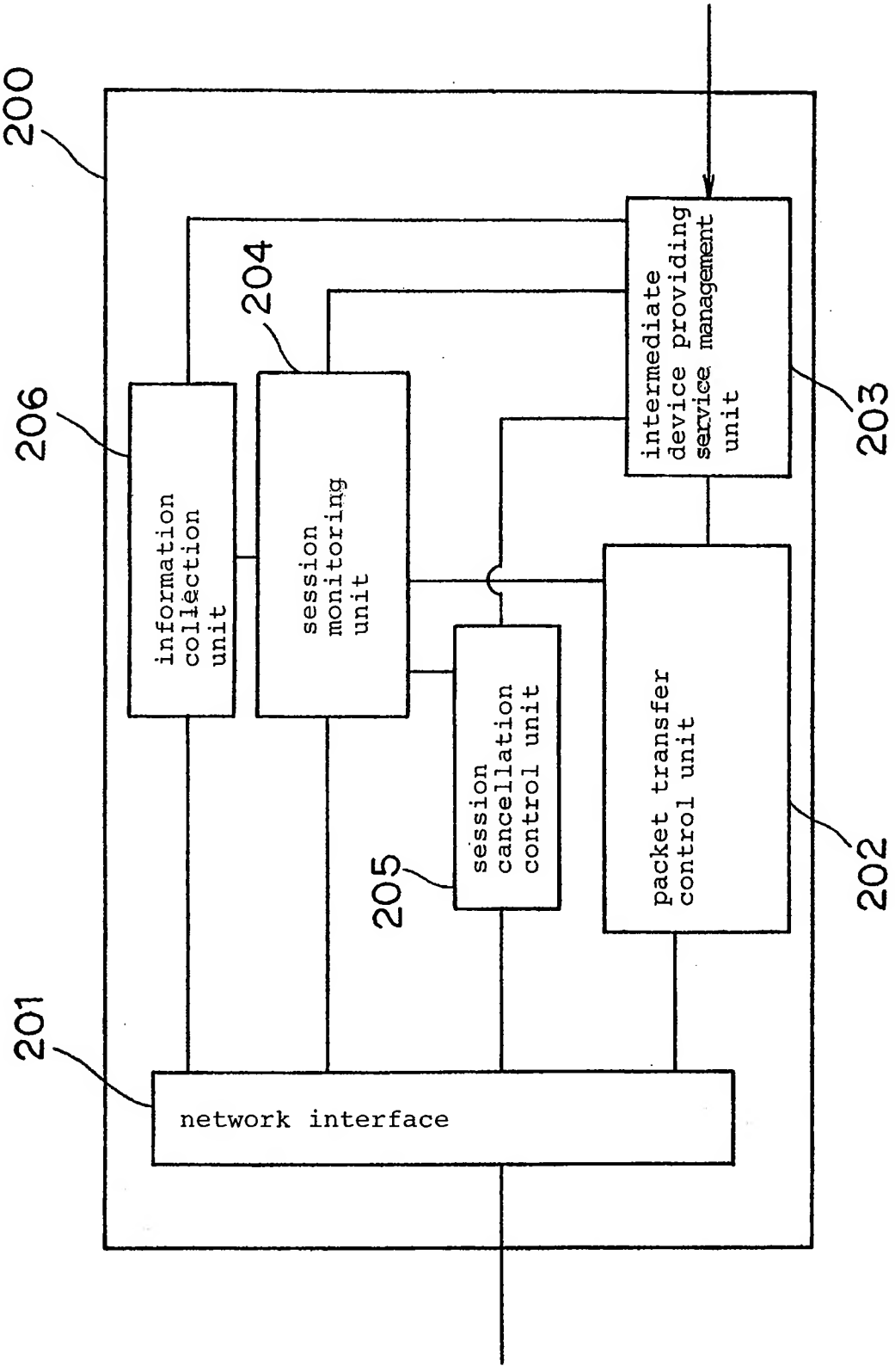

200
intermediate device
301
server
1
4
100
150
network switch
client
2
3
server
300

Fig. 2


200
intermediate device providing service management unit
203
204
206
information collection unit
session monitoring unit
session cancellation control unit
205
packet transfer control unit
202
201
network interface

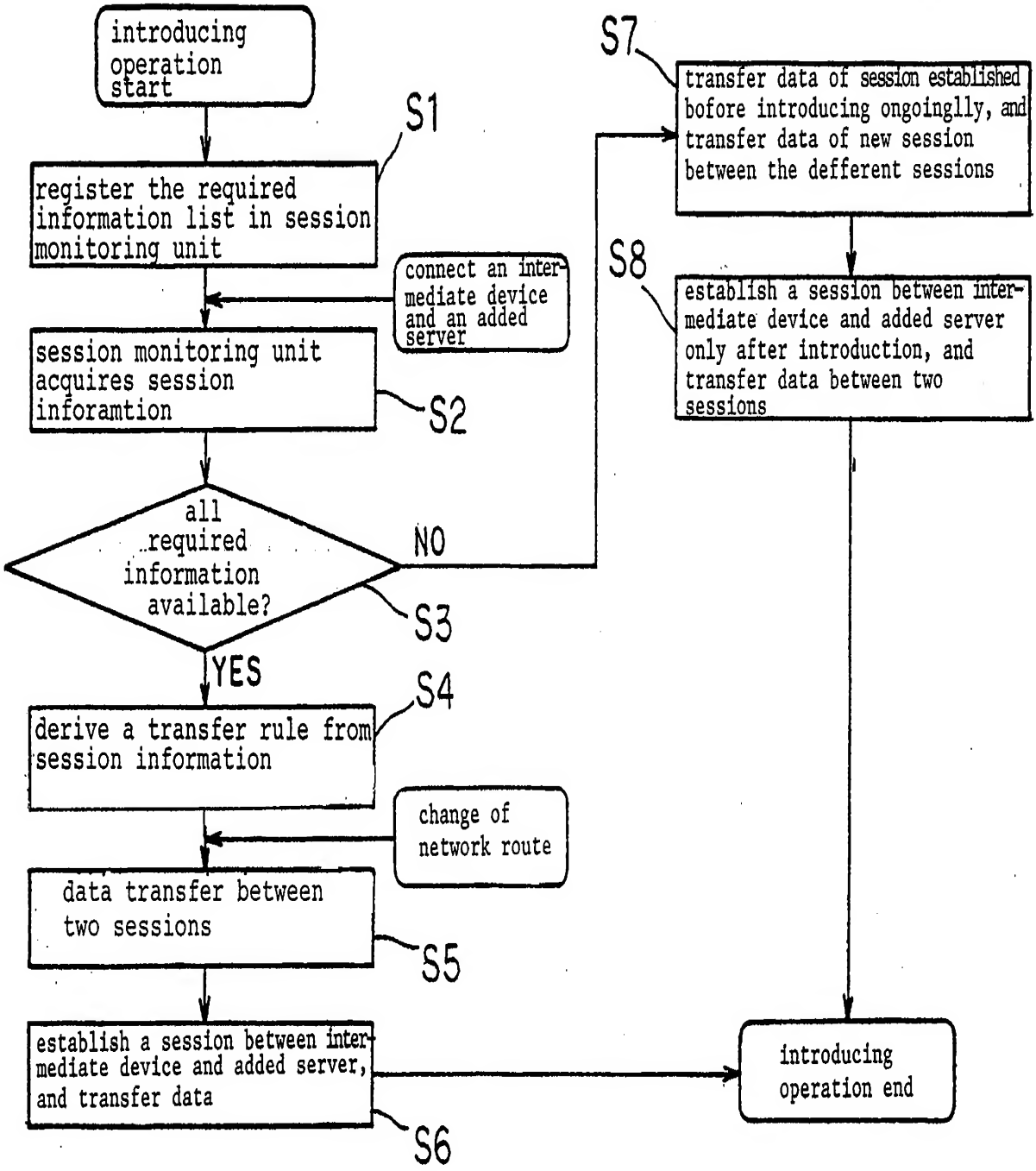

introducing operation start
S1
register the required information list in session monitoring unit
connect an intermediate device and an added server
session monitoring unit acquires session inforamtion
S2
all required information available?
NO
S3
YES
S4
derive a transfer rule from session information
change of network route
data transfer between two sessions
S5
establish a session between intermediate device and added server, and transfer data
S6
S7
transfer data of session established bofore introducing ongoinglly, and transfer data of new session between the defferent sessions
S8
establish a session between intermediate device and added server only after introduction, and transfer data between two sessions
introducing operation end

Fig. 3

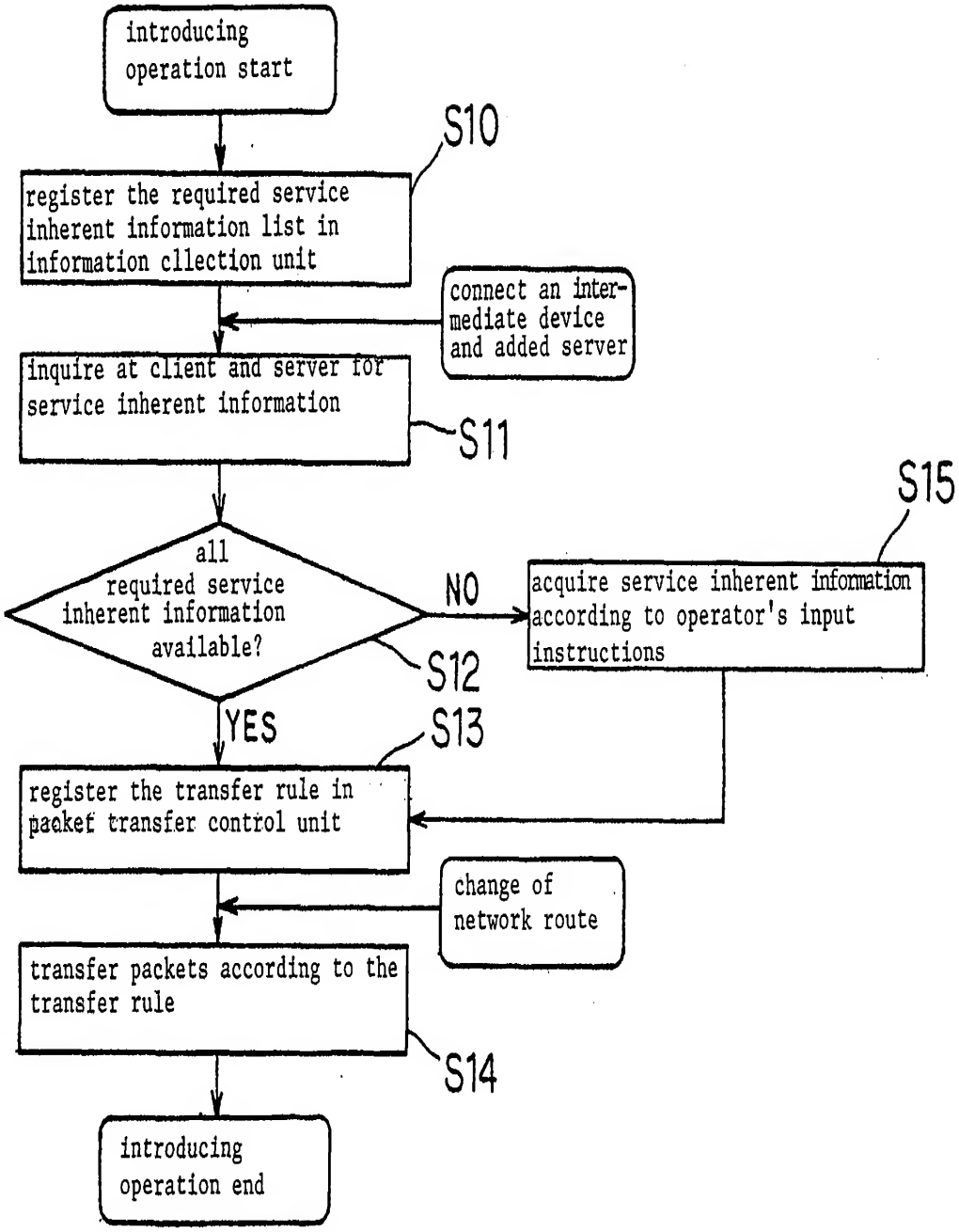
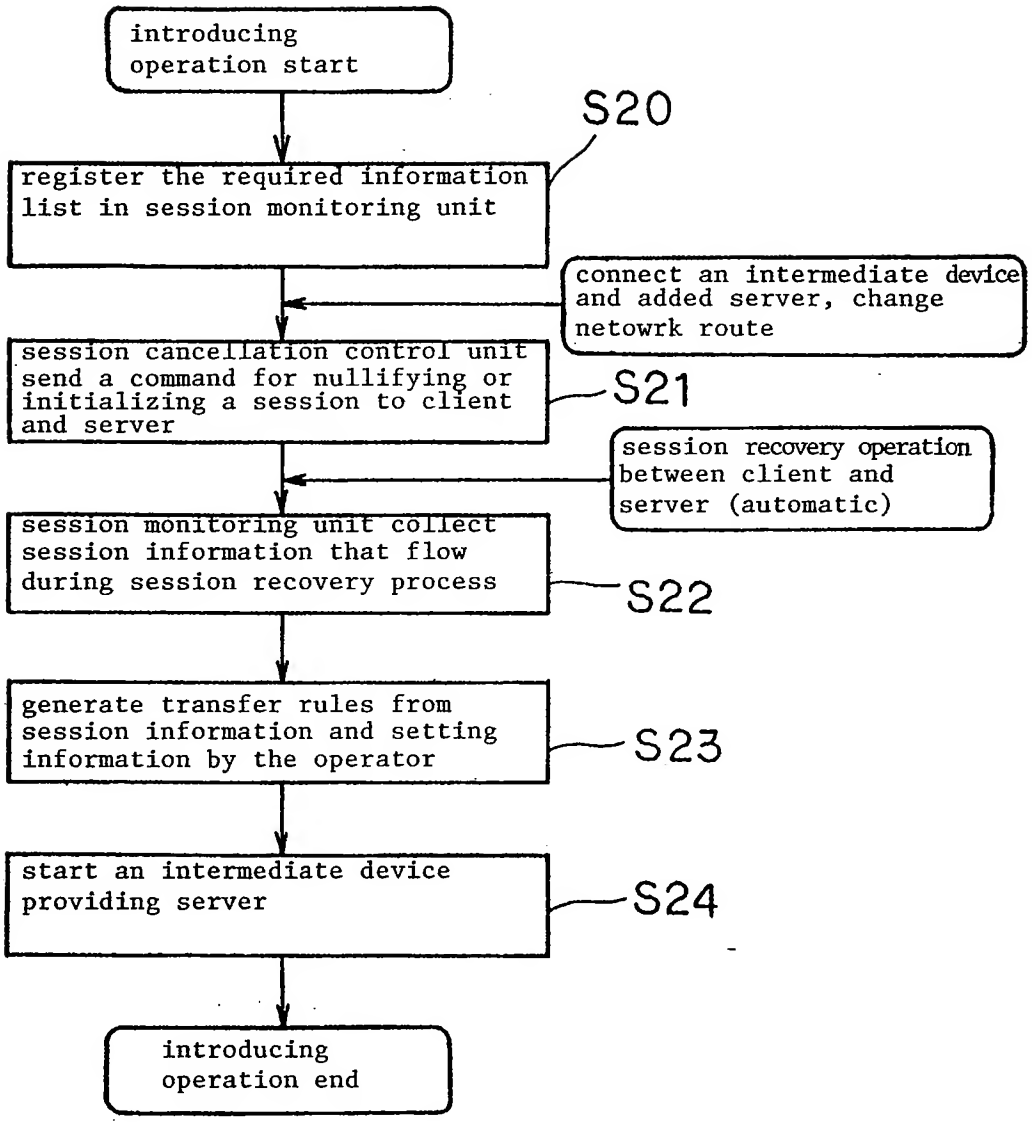

introducing operation start
S10
register the required service inherent information list in information cllection unit
connect an intermediate device and added server
inquire at client and server for service inherent information
S11
S15
all required service inherent information available?
NO
acquire service inherent information according to operator's input instructions
S12
YES
S13
register the transfer rule in packet transfer control unit
change of network route
transfer packets according to the transfer rule
S14
introducing operation end

Fig. 4

Fig. 5


introducing operation start
S20
register the required information list in session monitoring unit
connect an intermediate device and added server, change netowrk route
session cancellation control unit send a command for nullifying or initializing a session to client and server
S21
session recovery operation between client and server (automatic)
session monitoring unit collect session information that flow during session recovery process
S22
generate transfer rules from session information and setting information by the operator
S23
start an intermediate device providing server
S24
introducing operation end

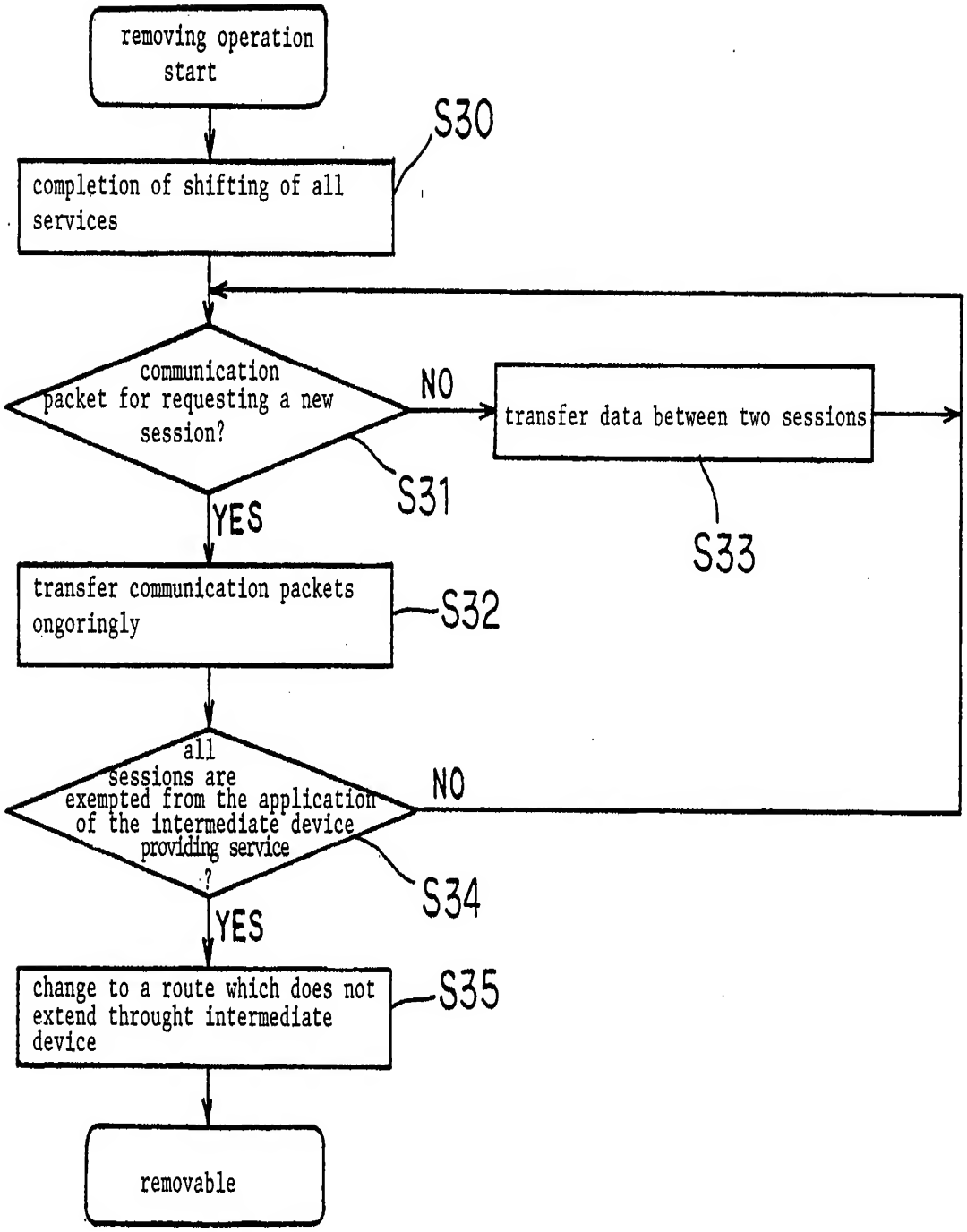

removing operation start
S30
completion of shifting of all services
communication packet for requesting a new session?
NO
transfer data between two sessions
S31
S33
YES
transfer communication packets ongoringly
S32
all sessions are exempted from the application of the intermediate device providing service ?
NO
S34
YES
change to a route which does not extend throught intermediate device
S35
removable

Fig. 6

Fig. 7

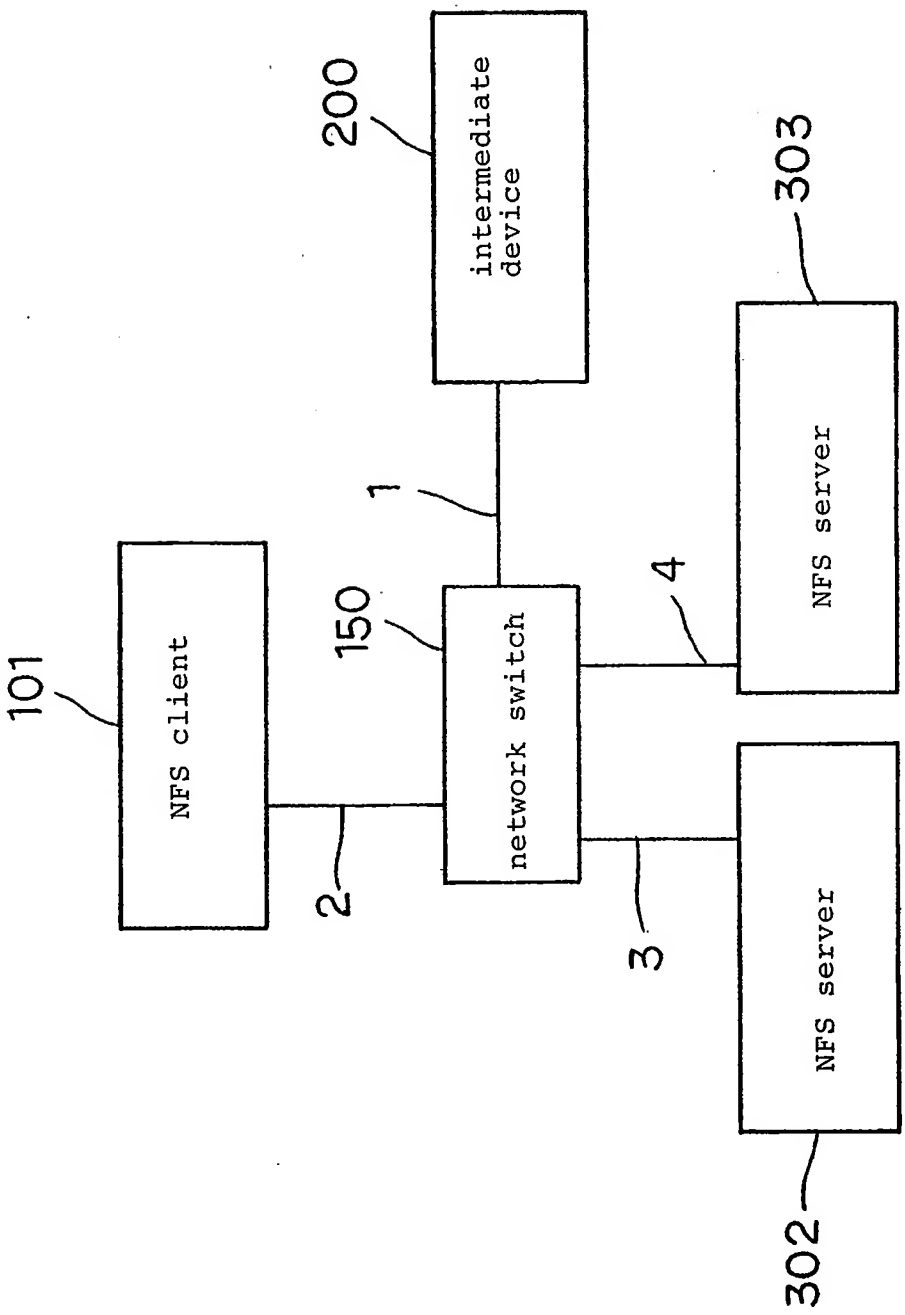

200
intermediate device
1
303
NFS server
150
network switch
4
101
NFS client
2
3
NFS server
302

Fig. 8

400

NFS server	NFS server
00cfde000611823	320000492384909
00cfde898239483	ff0000489849849
00cfde483920849	5g0000483928492
00cfde589482590	4f0000482938492
00cfde594358908	5y0000482398493
00cfde843948284	7g0000423989853
00cfde898023474	2a0000328190832
00cfde432848902	bc0000898934983
00cfde432748928	7f0000489328492
00cfde549504395	990000048988985
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Fig. 9

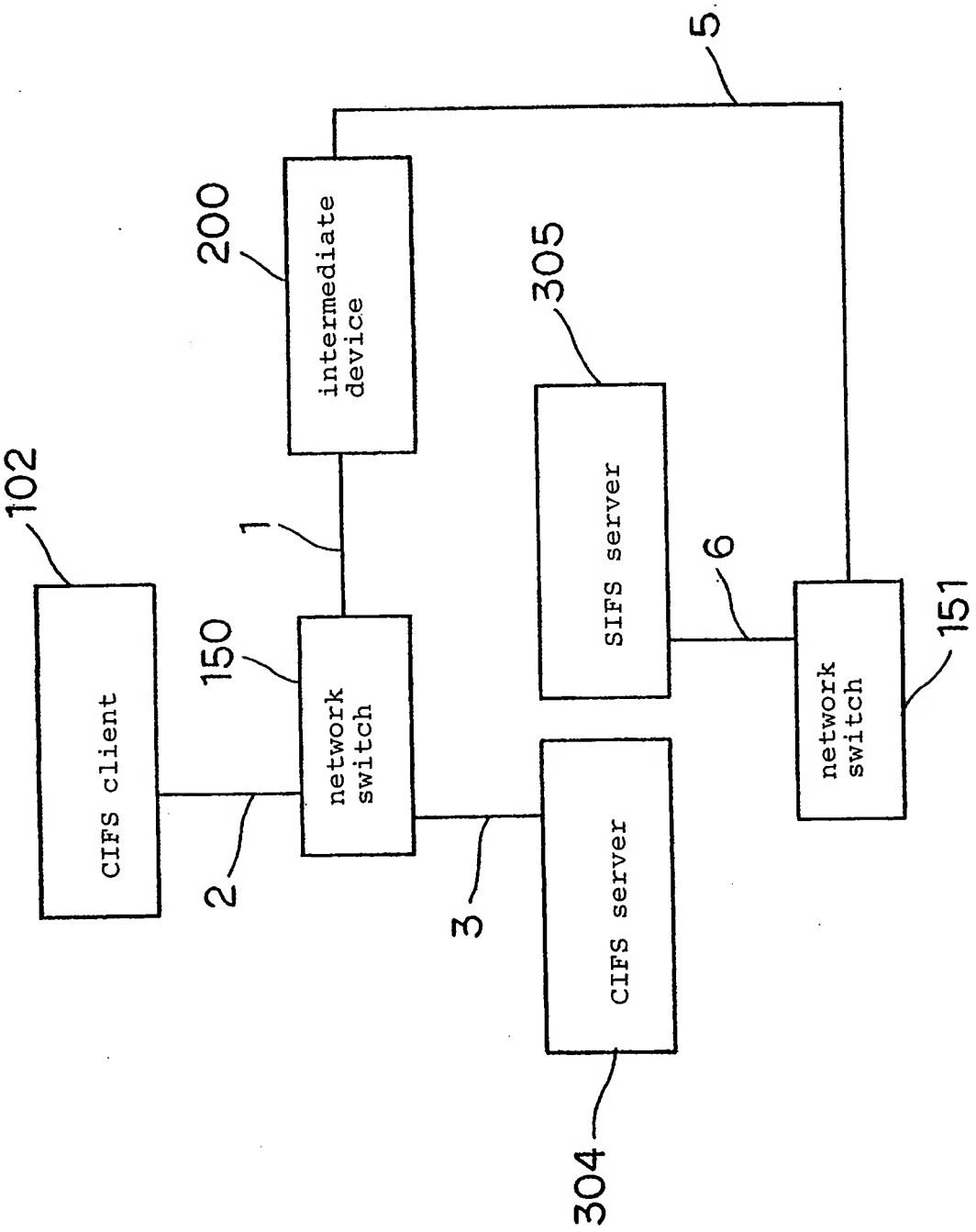
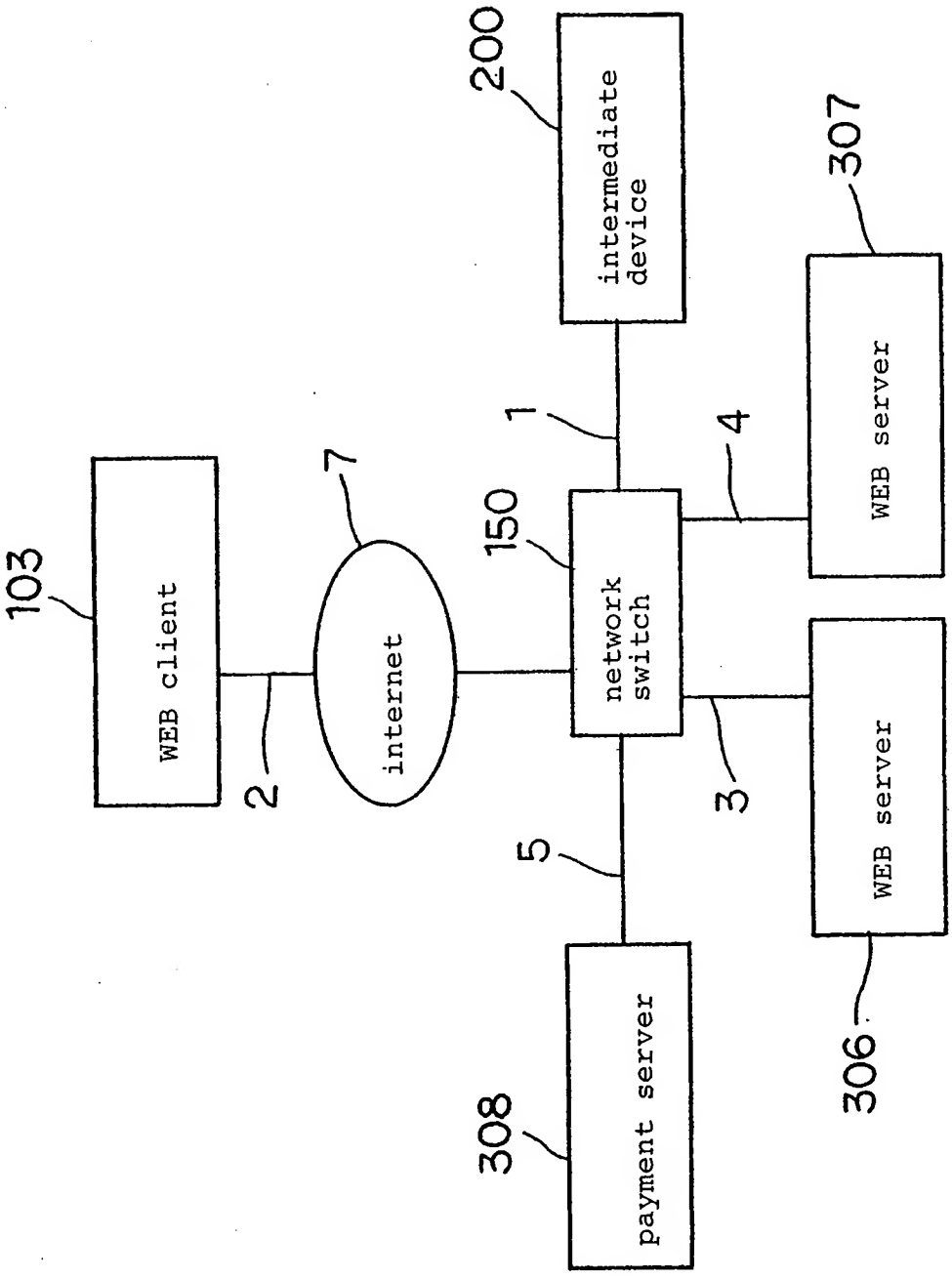

5
200
intermediate device
305
SIFS server
102
1
6
CIFS client
150
network switch
network switch
151
2
3
CIFS server
304

Fig. 10


200
intermediate device
307
WEB server
1
4
7
150
network switch
103
WEB client
internet
2
3
5
WEB server
306
payment server
308